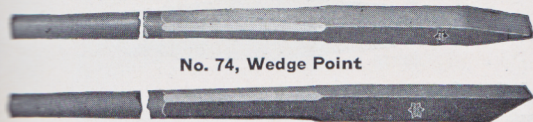




### Crowbars



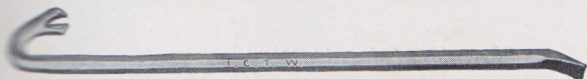
No. 74, Wedge Point

No. 75, Pinch Point

Made of tempered steel.

Weight Pounds	Each	Size Inches	Length Feet	Weight Pounds	Each	Size Inches	Length Feet
4	\$ .65	3/4	2 1/2	18	\$2.00	1 1/4	5
6	.85	7/8	3	20	2.30	1 1/4	5 1/6
8	1.00	1	3 1/2	24	2.45	1 3/8	5 1/2
10	1.20	1	4	26	2.95	1 3/8	5 3/4
12	1.35	1 1/8	4 1/2	30	3.60	1 1/2	6
14	1.52	1 1/8	4 1/2	50	6.00	1 3/4	7 1/2
16	1.75	1 1/4	4 3/8	100	10.50	2	9

### No. 63 Carpenters' Wrecking Bars



Gooseneck claw, raised pinch point made of steel.  
 Size.....inches 5/8x18 3/4x24 3/4x30 3/4x36 7/8x36  
 Per Dozen.....\$2.30 3.60 4.10 4.60 8.70  
 Wt. per Doz...pounds 21 42 52 62 82

### Leetonia Long Mining Pattern Coal Picks



This pick is drawn long, is well anchored and is adapted for use in soft coal.  
 Made of fine grain, high carbon steel.  
 Furnished in standard eared pattern only.  
 Painted black.  
 Picked 12 on a heavy wire.

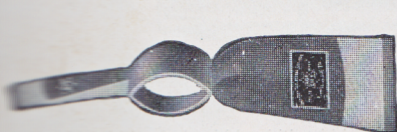
Per Dozen	Weight Pounds	Per Dozen	Weight Pounds	Per Dozen
\$9.50	2 1/2	\$10.00	3 1/2	\$11.00
9.50	2 3/4	10.30	4	11.50
9.50	3	10.50	4 1/2	12.00
9.80	3 1/4	11.00	5	12.50

### No. 296 Railroad or Clay Picks



Made of good grade steel. Hand forged,  
 black natural finish. Furnished in straight weights.  
 Packed 2 dozen in a case.  
 Weight.....pounds 5 6 7 8 9 10  
 Per Dozen.....\$11.20 11.80 12.20 14.00 15.80 17.10

### No. 424 Cutter Mattocks



**Adze Eye**  
 Narrow width  
 blades to order, 3,  
 3 1/2 inches.  
 Painted black.  
 Polished blades.

No. 424, 6-Pound Standard, 4-In. Blade.....per doz. \$13.50  
 No. 424, 5-Pound Light, 3 1/2-In. Blade.....per doz. 12.70

### No. 430 Pick Mattocks



No. 430, Standard, Weight 6 Pounds.....per dozen \$14.50  
 No. 430, Light, Weight 5 Pounds.....per dozen 13.40

### No. 440 Standard Pattern Grub Hoes



No.	Per Doz.	Blade In.	Wt. Lb.
0	\$11.20	3 1/2	3
1	12.50	3 3/4	3 1/2
2	13.40	4	4
3	14.50	4 1/4	4 1/2

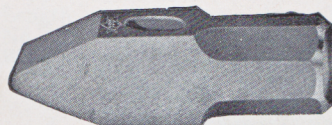
### No. 325 Blacksmiths' Double Face Sledges



Weight Pounds	Each	Weight Pounds	Each
5	\$1.10	14	\$2.15
6	1.15	16	2.50
8	1.35	18	2.90
10	1.60	20	3.15
12	1.90	24	3.85

### No. 322 Blacksmiths' Cross Pein Sledges

Made of solid steel.



Weight Pounds	Each
6	\$1.35
8	1.50
10	1.70
12	2.10
14	2.50
16	2.90

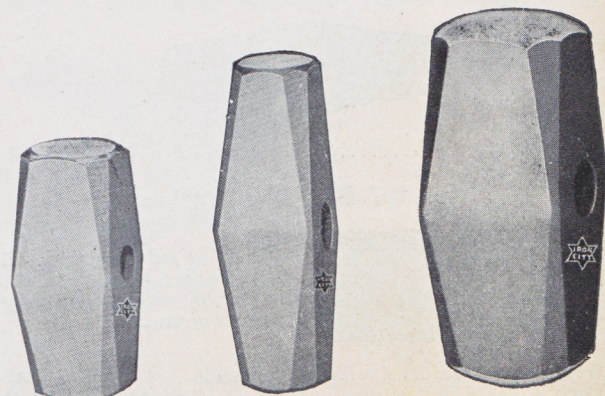
### No. 190 Western Pattern Blacksmiths' Hand Hammers

Oil finish—polished face.



Wt., Lb.	No. 190 Each	Wt., Lb.	No. 190 Each
1 1/2	\$ .55	3	\$ .80
2	.55	4	1.00
2 1/2	.65	...	...

### Striking Hammers



No. 228, Oregon or Short

No. 229, Nevada or Long Standard

No. 230, Missouri Pattern, Oval Face

Weight Pounds	No. 228	Each No. 229	No. 230	Weight Pounds	No. 228	Each No. 229	No. 230
2	\$ .55	\$ .55	\$ .55	10	\$1.60	\$1.60	\$1.60
3	.80	.80	.80	12	1.90	1.90	1.90
4	.95	.95	.95	14	2.15	2.15	2.15
6	1.15	1.15	1.15	16	2.50	2.50	2.50
8	1.35	1.35	1.35	20	3.15	3.15	3.15

### No. 340 Stone Sledges



Sharp Pein and Flat Face

Wt. Lbs.	Each	Wt. Lbs.	Each
8	\$1.35	16	\$2.50
10	1.60	18	2.90
12	1.90	20	3.15
14	2.25	24	3.90

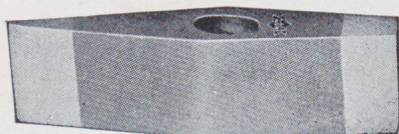


**No. 222 Spalling or Stone Hammers**

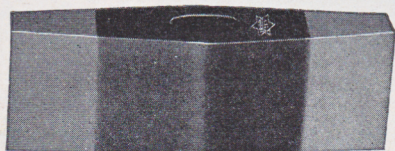
Single Face



Wt. Lb.	Each	Wt. Lb.	Each
3	\$ .80	12	\$2.60
4	1.10	14	2.95
5	1.15	16	3.40
6	1.25	18	3.85
8	1.70	20	4.30
10	2.15	..	....

**Stone Mason Hammers**

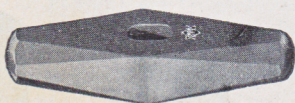
No. 209, Single Face



No. 210, Double Face

Oil finish as ordered.

Size.....	pounds	3	4	5	6
No. 209.....	each	\$1.10	\$1.15	\$1.45	\$1.60
No. 210.....	each	1.10	1.15	1.45	1.60

**No. 212 Napping Hammers**

Weight.....	pounds	2	3	4	6	8
No. 212.....	each	\$ .80	.90	1.00	1.35	1.45

**No. 197 Bush Hammers**

Regular cut, one end, 25 teeth; other end, 36 teeth. Made to order with any number of teeth.

Weight.....	pounds	4	6	8
Each.....		\$4.00	6.00	8.00

**Stone Axes or Pein Hammers**

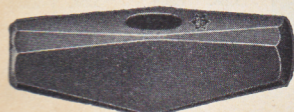
No. 55

Made of heat-treated tool steel. Double bit; 4, 6 and 8 pounds.

No. 55, Without Teeth	Wt. lb.	4	6	8
Each..		\$1.45	2.15	2.90
No. 56, With Teeth	Wt. lb.	4	6	8
Each..		\$1.85	2.75	3.70

**No. 202 Stone Cutters' or Hand Drilling Hammers**

California or Western Pattern—Oval Eye



Wt. Lb.	2	2 1/2	3	3 1/2	4
Ea..	\$1.00	1.10	1.10	1.15	1.20

**No. 236 Spike or Coal Mauls**

Made of steel.

Weight, 6 pounds.

No. 236.....each \$1.15

**No. 238 Railroad Spike Mauls**

Standard pattern. Special shapes made to blue print furnished.

Weight.....	pounds	6	8	10
No. 238.....	each	\$1.15	1.35	1.50

**No. 400 Wood Choppers' Wedges**

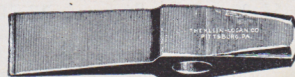
Square head; oil finish. Made of solid steel. Weight, 3 to 10 pounds.

Weight...lb.	3	3 1/2	4	4 1/2	5	6	7	8	10
Each.....	\$ .40	.40	.45	.50	.55	.60	.70	.80	1.00

**No. 400 Klein-Logan Blacksmiths' Cold Chisels**

Made of steel.

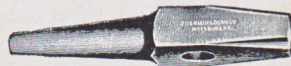
Size.....	inches	1 1/4	1 1/2	1 3/4
No. 400.....	each	..	..	..
Weight.....	pounds	2	3	5

**No. 401 Blacksmiths' Hot Chisels**

Made of special crucible tool steel.

Eye No. 3.

Stock at Eye.....	inches	1 1/4	1 1/2	1 3/4
No. 401.....	each	..	..	..
Bit.....	inches	1 1/2	1 3/4	2
Weight.....	pounds	2	3	5

**No. 404 Blacksmiths' Round Punches**

Made of steel. Eye No. 3.

Diam. of End.....	inches	1/4	3/8	1/2	5/8	3/4	7/8	1
No. 404.....	each	..	..	..	..	..	..	..
Stock at Eye.....	inches	1 1/8	1 1/8	1 1/4	1 3/8	1 3/8	1 1/2	1 3/4

**No. 409 Blacksmiths' Set Hammers**

Size.....	inches	1 1/4	1 1/2	1 3/4
Weight.....	pounds	1 1/4	3	5
Price, No. 409.....	each	..	..	..



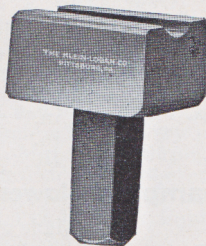


### No. 411 Blacksmiths' Top Swages

Made of steel.

Size Pein.....inches	1/4	3/8	1/2	5/8	3/4	7/8	1
No. 411.....each							
Size Pein.....inches	1 1/4	1 1/2	1 3/4	2	2 1/2	3	...
No. 411.....each							

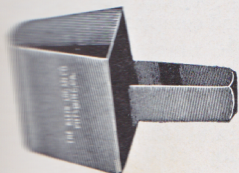
### No. 410 Blacksmiths' Bottom Swages



Made of steel. Has a 7/8-inch shank.

Size Pein.....inches	1/4	3/8	1/2	5/8	3/4	7/8	1
No. 410.....each							
Size Pein.....inches	1 1/4	1 1/2	1 3/4	2	2 1/2	3	...
No. 410.....each							

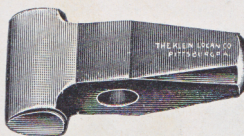
### No. 412 Blacksmiths' Bottom Fullers



Made of steel. Shank, 7/8 inches.

Size, In.	Each	Size, In.	Each
1/4	....	1 1/4	....
3/8	....	1 1/2	....
1/2	....	1 3/4	....
3/4	....	2	....
1	....	...	....

### No. 413 Blacksmiths' Steel Top Fullers



Size.....in.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2
No. 413.....ea.									

### No. 414 Blacksmiths' Steel Flatteners

Square

Made from open hearth steel with an analysis A.I.S.I. C-1064.

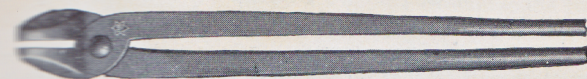
Size Face.....inches	2	2 1/2	3	4
No. 414.....each				
Weight.....pounds	2	3 3/4	4 1/2	7 1/2

### No. 415 Blacksmiths' Hardies



Shank, In.	Each
5/8	....
3/4	....
7/8	....
1	....
1 1/8	....
1 1/4	....

### No. 357 Blacksmiths' Farrier Tongs



Made of steel.

Length.....inches	14	16
No. 357.....per dozen	\$10.75	11.20
Weight, per Dozen.....pounds	18	21

### No. 349 Blacksmiths' V Lip Tongs

To Hold Squares



Length.....inches	18	20	22	24	26
No. 349.....doz.	\$12.75	13.65	15.65	16.50	22.50
Hold.....inches	1 1/4	3/8, 1/2	5/8, 3/4	7/8, 1	1 1/2
Weight, per Doz.....lbs.	24	30	33	36	40

### No. 350 Blacksmiths' Straight Lip Tongs



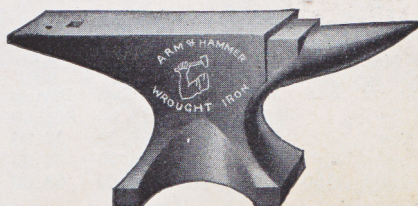
Length.....inches	14	16	18	20	22	24
No. 350.....doz.	\$11.55	11.90	12.35	13.05	13.70	14.65
Weight, per Doz.....lbs.	20	21	24	30	33	36

### No. 351 Blacksmiths' Curved Lip or Bolt Tongs



Size.....in.	3/8x18	1/2x20	5/8x22	3/4x22	7/8x24	1x24	1 1/4x24	1 1/2x26
Doz.....	\$15.60	15.60	18.10	18.10	19.00	19.00	19.00	22.50
Wt.....lbs.	30	33	35	37	40	40	40	42

### Arm & Hammer Wrought Iron Blacksmiths' Anvils



Forged from wrought iron, welded at the waist, to which is welded a solid plate of crucible tool steel.

Pritchel hole, base size, 1/2 to 9/16 inch; other sizes in proportion.

An additional charge will be made for special sizes, and definite specifications required.

Size of Face Inches	Weight Pounds	Size of Hardy Hole Inches	Price per Pound
2 1/4x 9 1/2	25 to 30	5/8	....
2 1/4x10	30 " 35	5/8	....
2 1/2x10 1/2	35 " 40	5/8	....
3 "x11	40 " 50	3/4	....
3 1/4x11 1/2	50 " 60	3/4	....
3 1/4x12	60 " 70	3/4	....
3 1/2x12 1/2	70 " 80	7/8	....
3 1/2x13	80 " 90	7/8	....
3 1/2x13 1/2	90 " 100	7/8	....
3 3/4x14	100 " 110	1	....
3 3/4x14 1/2	110 " 120	1	....
3 3/4x15	120 " 130	1	....
4 "x15 1/2	130 " 140	1 1/16	....
4 "x16	140 " 150	1 1/16	....
4 "x16 1/2	150 " 160	1 1/16	....
4 1/4x17	160 " 175	1 1/8	....
4 1/4x17 1/2	175 " 200	1 1/8	....
4 1/2x18	200 " 225	1 1/8	....
4 3/4x19	225 " 250	1 1/8	....
5 "x20	250 " 300	1 1/4	....
5 1/2x22	300 " 350	1 1/4	....
5 1/2x24	350 " 400	1 1/4	....
6 "x26	400 " 500	1 3/8	....

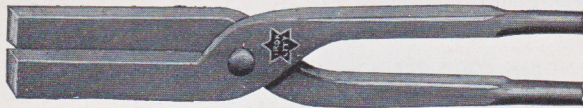


### No. 358 Blacksmiths' Rivet Tongs



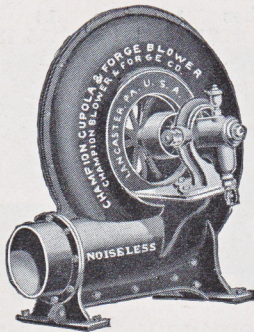
Length.....inches	18	20	22	24
No. 358.....per dozen	\$19.10	19.70	20.70	22.90
Weight, per Dozen.....pounds	24	26	30	32

### No. 361 Blacksmiths' Brazing Tongs



Length 18 inches.  
No. 361, Weight Per Dozen, 42 Pounds..... per dozen \$18.70

### Champion Steel Pressure Blowers



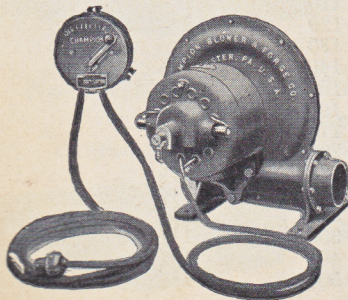
Especially adapted for foundry cupolas, furnaces, machine shops, forge fires, sand blast machines or any work requiring forcing of air long distances, high pressure or strong blast. Produces a stronger blast with same amount of power than any other blower.

No.	Ht. In.	O.D. In.	I.D. In.	Melting Cupola Hr.	Melt- ing per Hr., Lbs.	For Forge Iron	For Forge Fires	Wt. Lbs.	PRICE, EACH	
									Plain Bearings	Ball Bearings
1/2	12	2 3/4	..	..	..	4300	25	\$20.50	\$24.00	
1	15	3 1/2	..	..	..	4200	50	29.50	33.00	
2	20	4 7/8	..	..	..	4000	110	48.00	52.00	
3	24	5	22	1300	4150	3725	160	63.00	68.00	
4	26	6	26	2000	3790	3103	225	77.00	82.00	
5	30	6 3/4	30	4000	3275	2456	330	96.00	102.00	
6	35	8	35	6000	3050	2224	425	114.00	120.00	
7	40	9 1/4	40	10000	2900	1814	660	159.00	167.00	
8	45	11	46	14600	2820	1619	800	195.00	203.00	
9	53	12 1/2	53	22300	2600	1344	1070	260.00	270.00	
10	64	14	60	28500	2270	1200	1850	415.00	431.00	

### Champion Electric Steel Pressure Blowers

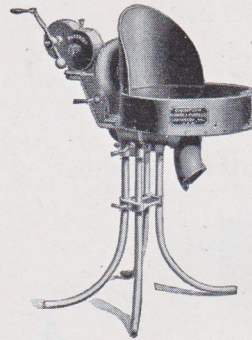
A one-fire variable speed electric blower. Motor is built with hammered steel shaft, phosphor bronze bearings, self-aligning and self-oiling bearings, commutator of hard drawn copper with 24 bars, large flat brushes staggered on commutator and silk covered wire of best insulation.

Furnished with universal motor wound for both a.c. and d.c., either 110 or 220 volts. No. 50 is for regular fire; No. 51 for extra heavy fire.



No.....	50	51
Each.....	\$44.00	55.00
Speed..rpm.	2350	2875
Outlet...in.	3	3
Ht.....in.	15	15
Wt.....lb.	60	70

### Champion Steel Rivet Forges



Used by bridge builders, railroad, boiler and structural iron workers.

Made with bronze and steel gears and adjustable ball bearings throughout.

Hearth of 10 gage steel, tuyere plate heavy cast iron.

It will produce blasts to weld 3 1/2 to 4-inch iron in ten minutes. Crank turns either way to make blast. Each turn of crank produces 46 revolutions of fan wing.

No.....	401	401 1/2	401 3/4
Each.....	\$40.00	43.00	47.00
Hearth..in.	18	22	24
Fan....in.	9	9	12
Ht.....in.	30	30	30
Wt.....lb.	135	145	150

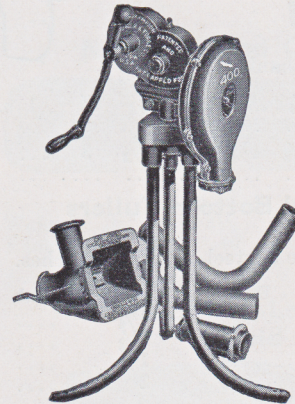
### Champion Blowers

Made with adjustable ball bearings only.

Crank turns either way.

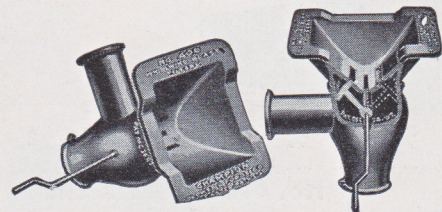
High speed spiral gearing with special phosphor bronze spiral gear and tool steel spiral shaft.

Whirlwind blast, anti-clinker, heavy nest tuyere iron and complete piping furnished.



No....	400	420	421
Each..	\$40.00	48.00	52.00
Fan.in.	12	14	16
Wt..lb.	160	170	175

### No. 400 Champion Whirlwind Tuyere Irons



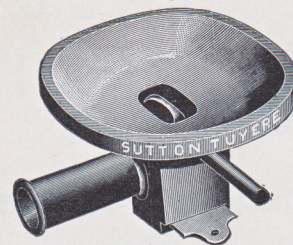
The Whirlwind Blast Anti-clinker Heavy Nest Tuyere Iron produces a circular, rotary blast. It will not blow the heat or hot air up and out of the chimney. It concentrates the blast and heat in the tuyere nest, thus making a hotter fire and heating one-third quicker.

It is supplied with a revolving pick to remove the clinkers out of the side slots.

It is 5 inches deep, 8 3/4 inches wide and 10 1/2 inches long over all, 12 3/8 x 14 3/4 inches. Weight, 55 pounds.

Price, No. 400.....each \$10.50

### Sutton Tuyere Irons



The use of the Sutton Tuyere Iron insures that the fire cannot spread. Ashes do not blow. No clay or mortar is required to set it.

The fire bowl is cast with the tuyere. Weight, 40 pounds. Can be furnished with ash slide or special spring bottom. Prices upon application.